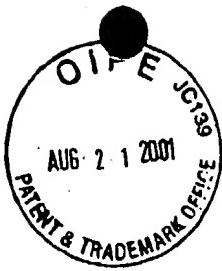


1263.1793

PATENT APPLICATION

2171

#5  
8-29-01

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

ALEXANDER RALPH LYONS ET AL.

Application No.: 09/718,405

Filed: November 24, 2000

For: IMAGE PROCESSING  
APPARATUSCommissioner for Patents  
Washington, D.C. 20231

Examiner: Not Yet Assigned

Group Art Unit: 2171

August 20, 2001

RECEIVED

AUG 27 2001

Technology Center 2600

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AUG 23 2001  
Technology Center 2100

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Sir:

In compliance with the duty of disclosure under 37 C.F.R. § 1.56 and in accordance with the practice under 37 C.F.R. §§ 1.97 and 1.98, the Examiner's attention is directed to the documents listed on the enclosed Form PTO-1449. Copies of the listed documents are also enclosed.

The Examiner's attention is also directed to the following U.S. Applications:

<u>APPLICATION NO.</u>	<u>FILING DATE</u>	<u>GROUP ART UNIT</u>
AWC - 09/718,342	11/24/00	2671
AWC - 09/718,343	11/24/00	2622
AWC - 09/718,413	11/24/00	2614
AWC - 09/129,077	08/05/98	2621
AWC - 09/129,079	08/05/98	2621
Aut - 09/129,080	08/05/98	2785

A copy of each cited Application is enclosed.

*Acct 12/20/04*

FORM PTO 1449 (modified)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		AUG 09 2001		PATENT & TRADEMARK OFFICE		DOCKET NO. 1263.1793		APPLICATION NO. 09/718,405		
LIST OF REFERENCES CITED BY APPLICANT(S) (Use several sheets if necessary)				APPLICANT		ALEXANDER RALPH LYONS ET AL.						
				FILING DATE		November 24, 2000		GROUP		Not Yet Assigned		
U.S. PATENT DOCUMENTS												
*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME				CLASS	SUBCLASS	FILING DATE IF APPROPRIATE		
RECEIVED												
AUG 13 2001												
Technology Center 2600												
FOREIGN PATENT DOCUMENTS												
		DOCUMENT NUMBER	DATE	COUNTRY				CLASS	SUBCLASS	TRANSLATION YES/NO/ OR ABSTRACT		
AWC	GB	2353659	02/28/01	Great Britain				G06T	15/20			
AWC	EP	0707288	04/17/96	EPO				G06T	15/10			
AWC	EP	0902395	03/17/99	EPO				G06T	7/00			
AWC	EP	0895192	02/03/99	EPO				G06T	11/00			
AWC	ep	0680014	11/02/95	EPO				G06T	7/00			
OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)												
		"Relative Orientation", B. Horn, Inspec.I Abstract accession No. 3620717, Jun. 1990, Netherlands										
EXAMINER	<i>Awc</i>				DATE CONSIDERED		<i>12/10/01</i>					

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Sheet 1 of 1

FORM PTO-1449 (modified) U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY DOCKET NO. <b>1263.1793</b>		APPLICATION NO. <b>09/718,405</b>		RECEIVED <b>AUG 27 2001</b>	
LIST OF REFERENCES CITED BY APPLICANT(S) (Use several sheets if necessary)		APPLICANT <b>AUG 21 2001</b>		Alexander Ralph Lyons Et al.		Technology Center 2600	
		FILING DATE <b>Nov 24, 2000</b>		GROUP		Not Yet Known	
US PATENT DOCUMENTS							
*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
							<b>AUG 23 2001</b>
							<b>Technology Center 2100</b>
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES/NO/ OR ABSTRACT
OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)							
<i>AWR</i>		<b>"Systems and Experiment Paper: Construction of Panoramic Image Mosaics with Global and Local Alignment" by Shum and Szeliski in International Journal of Computer Vision 36(2), pp. 101-130 (2000).</b>					
<i>AWL</i>		<b>"A unifying Framework for Structure and Motion Recovery from Image Sequences" by P.F. McLauchlan and D.W. Murray in Proc 5th International Conf. on Computer Vision, Boston, pp. 314-320, June 1995</b>					
<i>AWC</i>		<b>"The Variable State Dimension Filter applied to Surface-Based Structure from Motion" by Philip F. McLauchlan, CVSSP Technical Report VSSP-TR-4/99, pp. 1-52</b>					
EXAMINER 		DATE CONSIDERED <b>12/20/04</b>					

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FORM PTO 1449 (modified)				ATTY DOCKET NO. 1263.1793	APPLICATION NO. 09/718,627 2001			
U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE				O I P E				
LIST OF REFERENCES CITED BY APPLICANT(S) (Use several sheets if necessary)				APPLICANT Alexander Ralph Lyons Et al, Technology Center 2600				
AUG 21 2001 P A T E N T & T R A D E M A R K O F F I C E				FILING DATE November 24, 2000	GROUP Not Yet Known			
U.S. PATENT DOCUMENTS								
*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
AWC		5,511,153	04/23/96	Azarbavejani et al	395	119		
AWC		6,044,181	03/28/00	Szeliski et al.	382	284	08/01/97	
FOREIGN PATENT DOCUMENTS								
		DOCUMENT NUMBER	DATE	COUNTRY	RECEIVED AUG 23 2001	CLASS	SUBCLASS	TRANSLATION YES/NO/ OR ABSTRACT
AWC	EP	0898245	02/24/99	EPO		G06T	7/00	
AWC	EP	0901105	03/10/99	EPO		G06T	7/00	
OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)								
AWC	✓	"Epipolar Geometry in Stereo, Motion and object Recognition".by Xu and Zhang, Chapter 2, Kluwer Academic Press, ISBN 0792341996.						
AWC	✓	"Euclidean Reconstruction from Uncalibrated Views" by Hartley in Applications of Invariance in Computer Vision: Proceedings of Second Joint Euro-US Workshop, Chapter 5, Ponta del Gada, Azores, Portugal, Oct 1993, Springer-Verlag, ISBN 0387582401.						
AWC	✓	"Efficient Bundle Adjustment with Virtual Key Frames: A Hierarchical Approach to Multi-Frame Structure from Motion" by Shum et al in Proceedings of the 1999 IEEE Computer Society Conference on Computer Vision and Pattern Recognition, Volume 2, pp. 538-543, ISBN 0769501494.						
AWC	✓	"Calibration of Image Sequences for Model Visualisation" by Broadhurst and Cipolla in Proceedings of the 1999 IEEE Computer Society Conference on Computer Vision and Pattern Recognition, Volume 1, pp.100-105, ISBN 0769501494.						
AWC	✓	"Multi-View 3D Estimation and Applications to Match Move" by Sawhney et al in 1999 IEEE Workshop on Multi-View Modelling and Analysis of Visual Scenes, pp. 21-28, ISBN 0769501109.						
AWC	✓	"Calibrating and 3D Modelling with a Multi-Camera System" by Wiles and Davison in 1999 IEEE Workshop on Multi-View Modelling and Analysis of Visual Scenes, pp. 29-36, ISBN 0769501109.						
AWC	✓	"Adaptive Least Squares Correlation: A Powerful Image Matching Technique" by A. W. Gruen in Photogrammetry Remote Sensing and Cartography, 14(3), 1985 pp. 175-187.						
AWC	✓	"Computer and Robot Vision Volume 2", Section 13.4.15, by R. M. Haralick and L. G. Shapiro, Addison-Wesley Publishing Company, 1993, pp. 85-91, ISBN 0-201-56943-4 (v.2).						
AWC	✓	"Numerical Recipes in C", Chapter 15.5, pp. 681-688 by Press et al, Cambridge University Press, ISBN 0-521-43108-5.						
AWC	✓	"Closed Form Solution of Absolute Orientation Using Unit Quaternions" by Horn in Journal of Optical Soc. of America 4(4), pp. 629-649, April 1987.						
AWC	✓	"Shape and Motion from Image Streams under orthography: a Factorization Method" by Tomasi and Kanade, IJCV 9:2, 137-154						
EXAMINER				DATE CONSIDERED	17/02/04			

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FORM PTO 1449 (modified)		ATTY DOCKET NO.	APPLICATION NO.	RECEIVED
U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		1263.1793	09/718,405	AUG 27 2001
LIST OF REFERENCES CITED BY APPLICANT(S) (Use several sheets if necessary)		APPLICANT	Alexander Ralph Lyons Et al. Technology Center 2600	
		FILING DATE	November 24, 2000	GROUP Not Yet Known
U.S. PATENT DOCUMENTS				
*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME
FOREIGN PATENT DOCUMENTS				
		DOCUMENT NUMBER	DATE	COUNTRY
OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)				
AWC		"Computer and Robot Vision Volume 1", Section 8, by R. M. Haralick and L. G. Shapiro, Addison-Wesley Publishing Company, 1992, pp. 371-452, ISBN 0-201-10877-1 (v.I).		
AWC		"Rapid Octree Construction from Image Sequences" by R. Szeliski in CVGIP: Image Understanding, Volume 58, Number 2, July 1993, pp. 23-32.		
AWC		"Marching Cubes: A High Resolution 3D Surface Construction Algorithm" by W. E. Lorensen & H. E. Cline in Computer Graphics, SIGGRAPH 87 proceedings, 21; pp. 163-169, July 1987.		
AWC		"An Implicit Surface Polygonizer" by J. Bloomenthal in Graphics Gems IV, AP Professional, 1994, ISBN 0123361559, pp. 324-350.		
AWC		"Photorealistic Scene Reconstruction by Voxel Coloring" by Seitz and Dyer in Proc. Conf. Computer Vision and Pattern Recognition 1997, pp. 1067-1073.		
AWC		"Plenoptic Image Editing" by Seitz and Kutulakos in Proc. 6th International Conference on Computer Vision, pp. 17-24.		
AWC		"What Do N Photographs Tell Us About 3D Shape?" by Kutulakos and Seitz in University of Rochester Computer Sciences Technical Report 680, January 1998, pp. 1-8.		
AWC		"A Theory of Shape by Space Carving" by Kutulakos and Seitz in University of Rochester Computer Sciences Technical Report 692, May 1998, pp. 1-27.		
AWC		"Robust Video Mosaicing Through Topology Inference and Local to Global Alignment" by Sawhney et al in Proc. European Conference on Computer Vision, ECCV, Freiburg Germany vol 2, pp. 103-119, June 1998.		
AWC		"The Variable State Dimension Filter" by Philip McLauchlan.		
AWC		"Good Features to Track" by Shi and Tomasi in 1994 IEEE Conference on Computer Vision and Pattern Recognition pp. 593-600.		
AWC		"A Multiple-Baseline Stereo" by Okutomi and Kanade in IEEE Transactions on Pattern Analysis and Machine Intelligence, Volume 15, No 4, April 1993, pp. 353-363.		
EXAMINER		DATE CONSIDERED 12/20/04		

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